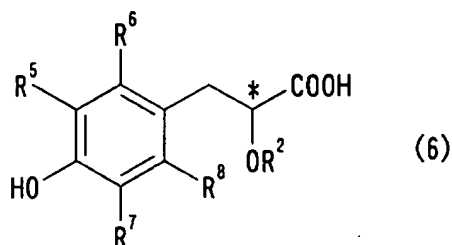
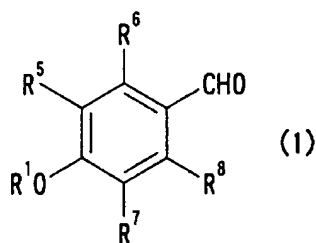


Amendments to the Claims

1. (Original) A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):



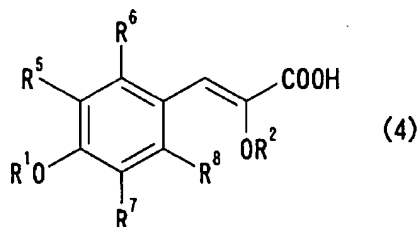
wherein R^2 is an alkyl group, R^5 to R^8 are each independently a hydrogen atom or a substituent; and the symbol * is a chiral carbon atom, or a salt thereof, which comprises reacting a benzaldehyde of the formula (1):



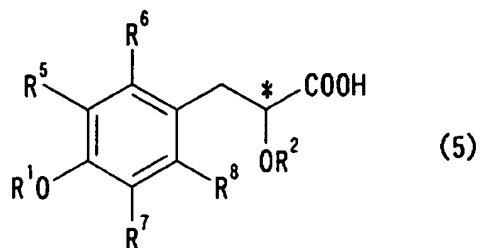
wherein R^1 is a protective group; and R^5 to R^8 are each the same as defined above, with a glycolic acid derivative of the formula (2):



wherein R^3 is a hydrocarbon group, and R^2 is the same as defined above, hydrolyzing the resulting product to give a cinnamic acid of the formula (4):

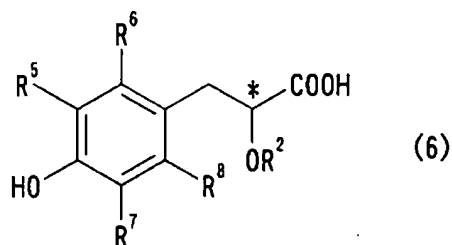


wherein R^1 , R^2 , and R^5 to R^8 are each the same as defined above, or a salt thereof, and subjecting the cinnamic acid (4) or a salt thereof to asymmetric hydrogenation to give an optically active phenylpropionic acid of the formula (5):

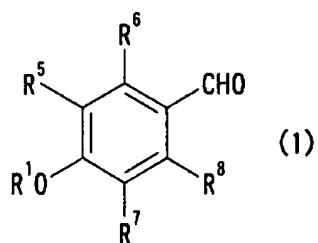


wherein all the symbols are each the same as defined above,
or a salt thereof, followed by deprotection.

2. (Original) A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):



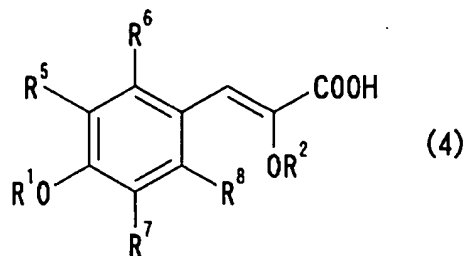
wherein R^2 is an alkyl group; R^5 to R^8 are each independently a hydrogen atom or a substituent;
and the symbol * is a chiral carbon atom,
or a salt thereof, which comprises reacting a benzaldehyde of the formula (1):



wherein R^1 is a protective group; and R^5 to R^8 are each the same as defined above,
with a glycolic acid derivative of the formula (2):

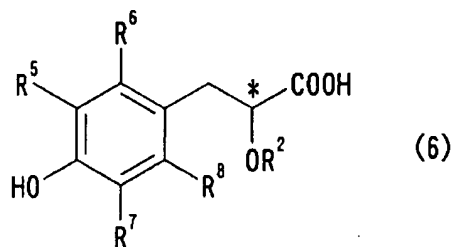


wherein R^3 is a hydrocarbon group, and R^2 is the same as defined above, followed by hydrolysis
to give a cinnamic acid of the formula (4):

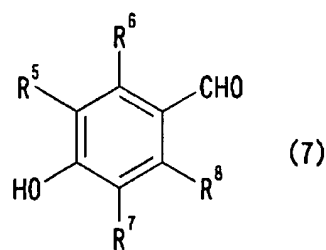


wherein R¹, R², and R⁵ to R⁸ are each the same as defined above,
or a salt thereof, and subjecting the cinnamic acid (4) or a salt thereof to asymmetric
hydrogenation.

3. (Original) A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of
the formula (6):



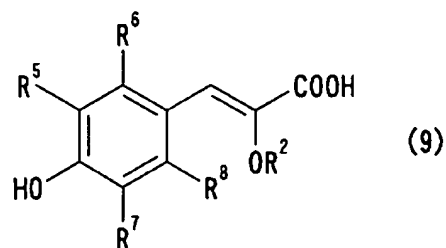
wherein R² is an alkyl group; R⁵ to R⁸ are each independently a hydrogen atom or a substituent;
and the symbol * is a chiral carbon atom,
or a salt thereof, which comprises reacting a 4-hydroxybenzaldehyde of the formula (7):



wherein R⁵ to R⁸ are each the same as defined above,
with a glycolic acid derivative of the formula (2):



wherein R³ is a hydrocarbon group; and R² is the same as defined above, followed by hydrolysis
to give a 4-hydroxycinnamic acid of the formula (9):



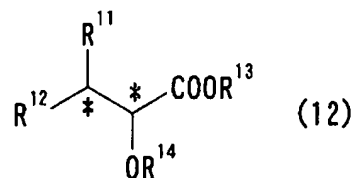
wherein R^2 , and R^5 to R^8 are each the same as defined above,
or a salt thereof, and subjecting the 4-hydroxycinnamic acid (9) or a salt thereof to asymmetric hydrogenation.

4. (Currently amended) The process according to ~~any one of claims 1 to 3~~ claim 1, wherein the asymmetric hydrogenation is carried out in the presence of a chiral catalyst.

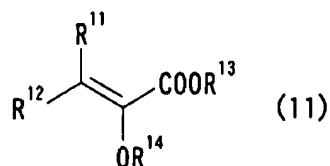
5. (Currently amended) The process according to ~~any one of claims 1 to 4~~ claim 1, wherein the chiral catalyst is a transition metal complex.

6. (Original) The process according to claim 5, wherein the transition metal complex is a complex of the metal of Groups 8 to 10 in the periodic table.

7. (Original) A process for producing an optically active carboxylic acid of the formula (12):



wherein R^{11} and R^{12} are each independently a hydrogen atom or a substituent; R^{13} is a hydrogen atom, an optionally substituted hydrocarbon group or a metal atom; R^{14} is a hydrogen atom or a protective group; and the symbol * is an chiral carbon atom, or a salt thereof, which comprises subjecting an α,β -unsaturated carboxylic acid of the formula (11):



wherein R¹¹ to R¹⁴ are each the same as defined above,
or a salt thereof, to asymmetric hydrogenation in the presence of a transition metal complex,
provided that when the transition metal complex is rhodium, the protective group represented by
R¹⁴ in the above formula (11) is a group other than acyl.

8. (Original) The process according to claim 7, wherein the transition metal complex is a
complex of the metal of Groups 8 to 10 in the periodic table.

9. (Currently amended) The process according to claim 1 ~~or 3~~, wherein the chiral catalyst
is a mixture of a chiral ligand and a transition metal compound.

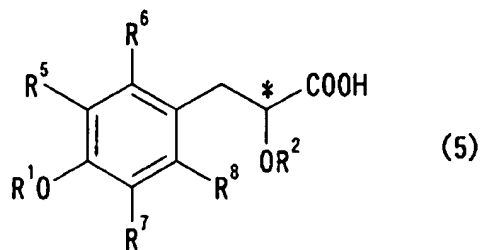
10. (Currently amended) The process according to ~~any one of claims 1 to 3~~ claim 1,
wherein the optically active phenylpropionic acid of the formula (5) or a salt thereof obtained by
the method according to ~~any one of claims 1 to 3~~ claim 1 is crystallized from a solvent.

11. (Original) The process according to claim 10, wherein the solvent used for the
crystallization is a member selected from the group consisting of hydrocarbons, alcohols, ketones
and water, and a mixture thereof.

12. (Currently amended) The process according to ~~any one of claims 1 to 3~~ claim 1,
wherein the optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6) or a salt
thereof obtained by the method according to ~~any one of claims 1 to 3~~ claim 1 is crystallized from
a solvent.

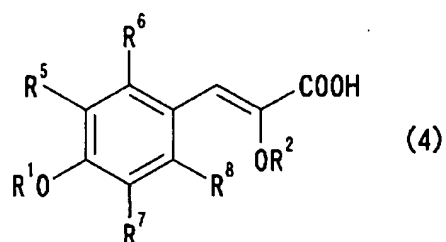
13. (Original) The process according to claim 12, wherein the solvent used for the
crystallization is a member selected from the group consisting of aromatic hydrocarbons,
aliphatic hydrocarbons, alcohols and water, and a mixture thereof.

14. (Original) A process for producing an optically active phenylpropionic acid of the formula
(5):



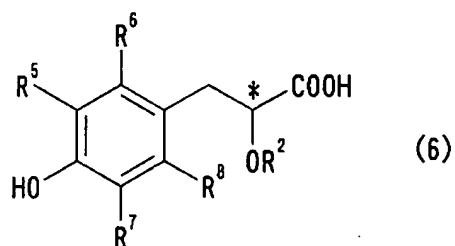
wherein R¹ is a protective group; R² is an alkyl group; R⁵ to R⁸ are each independently a hydrogen atom or a substituent; and the symbol * is an chiral carbon atom, or a salt thereof

which comprises subjecting a cinnamic acid of the formula (4):

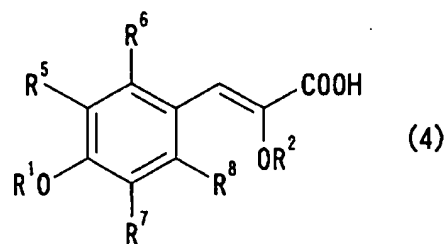


wherein R¹, R², and R⁵ to R⁸ are each the same as defined above, or a salt thereof, to asymmetric hydrogenation.

15. (Original) A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):

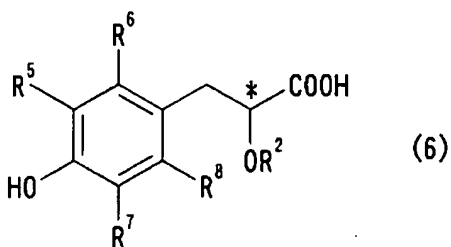


wherein R² is an alkyl group; R⁵ to R⁸ are each independently a hydrogen atom or a substituent; and the symbol * is a chiral carbon atom, or a salt thereof, which comprises subjecting a cinnamic acid of the formula (4):



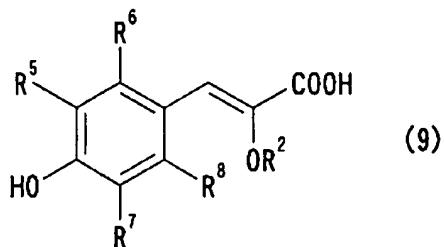
wherein R^1 , R^2 , and R^5 to R^8 are each the same as defined above,
or a salt thereof, to asymmetric hydrogenation.

16. (Original) A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):



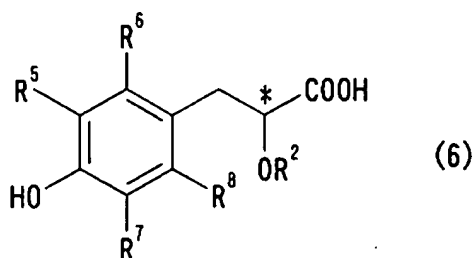
wherein R^2 is an alkyl group; R^5 to R^8 are each independently a hydrogen atom or a substituent;
and the symbol * is a chiral carbon atom,
or a salt thereof,

which comprises subjecting a 4-hydroxycinnamic acid of the formula (9):

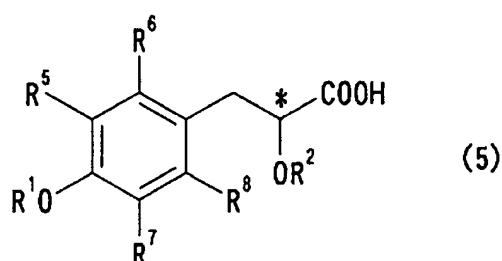


wherein R^2 , and R^5 to R^8 are each the same as defined above,
or a salt thereof to asymmetric hydrogenation.

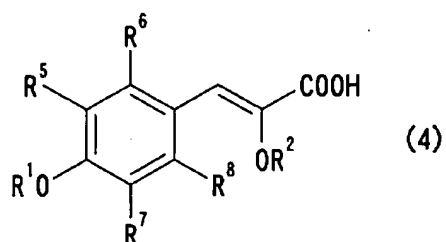
17. (Original) A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):



wherein R^2 is an alkyl group; R^5 to R^8 are each independently a hydrogen atom or a substituent; and the symbol * is a chiral carbon atom, or a salt thereof, and an optically active phenylpropionic acid of the formula (5):

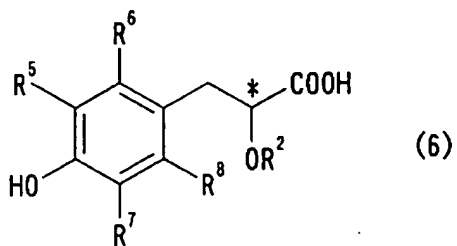


wherein R^1 is a protective group; and R^2 , R^5 to R^8 and the symbol * are each the same as defined above, or a salt thereof, which comprises subjecting a cinnamic acid of the formula (4):



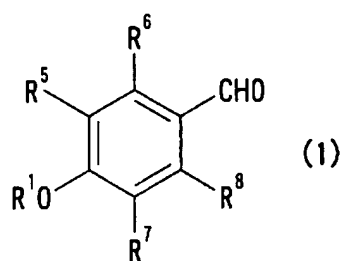
wherein R^1 , R^2 , and R^5 to R^8 are each the same as defined above, or a salt thereof, to asymmetric hydrogenation.

18. (Original) A process for producing an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):



wherein R^2 is an alkyl group, R^5 to R^8 are each independently a hydrogen atom or a substituent;
and the symbol * is a chiral carbon atom,

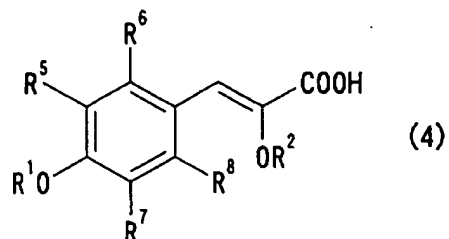
or a salt thereof, which comprises reacting a benzaldehyde of the formula (1):



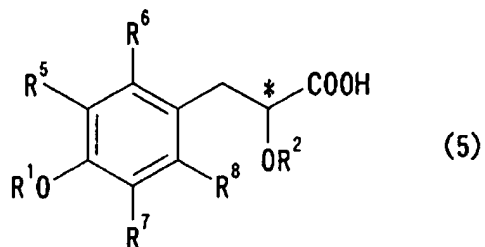
wherein R^1 is a protective group; and R^5 to R^8 are each the same as defined above,
with a glycolic acid derivative of the formula (2):



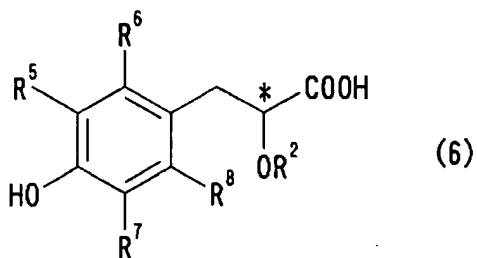
wherein R^3 is a hydrocarbon group, and R^2 is the same as defined above, hydrolyzing the resulting product to give a cinnamic acid of the formula (4):



wherein R^1 , R^2 , and R^5 to R^8 are each the same as defined above, or a salt thereof, and subjecting the cinnamic acid (4) or a salt thereof to asymmetric hydrogenation to give an optically active phenylpropionic acid of the formula (5):



wherein all the symbols are each the same as defined above, or a salt thereof, and an optically active 3-(4-hydroxyphenyl)propionic acid of the formula (6):



wherein all the symbols are each the same as defined above, or a salt thereof, followed by deprotection.